

<110> Hansen, J. Norman

<120> Construction of a Strain of Bacillus subtilis 168 that Displays the Sublancin Lantibiotic on the Surface of the Cell

<130> 108172-00057

<150> 60/215,449

<151> 2000-06-29

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 2517

<212> DNA

<213> Artificial Sequence

<220>

<223> The EcoRI-HindIII insert of the pLPVc integrative plasmid.

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ataagaaaga gtgattatat ggaatatgta gttatgataa tcattttatt agcacttttc 240

tftattttta ctgttttcct aaatacacgt tatagttttg atgaaaaatg cttagtctta 300

aaatttggtt tatctaaaac agaaattcca attaatacaa tagttagtat taaagagtca 360

1062390 00966660

gacaagtatg gagttgcaga taatatcat tataaaattg gtagccata tgctcaacca 420

gatagaattg ttattgaaac tacaaataag cgttttctag ttttttaaa tggagctcaa 480

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gccactttat acaatttttg atgggtatc taaaacattc tctggatttt ggactcctgt 1140

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300

100

 $\langle 211 \rangle$  100

<213> Artificial Sequence

<223> The peptide sequence of sunA-PG20-SL.

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Lys Gly Ser Gly Leu Gly Lys Ala Gln Cys Ala Ala Leu Trp Leu Gln

Cys Ala Ser Gly Gly Thr Ile Gly Cys Gly Gly Gly Ala Val Ala Cys

Gln Asn Tyr Arg Gln Phe Cys Arg Gly Gly Gly Gly Gly Gly Gly Gly

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Met Ser Lys Phe

65                      70                      75                      80

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	22	55
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	1.5	10	16
Income	3500	1500	1000	8000
Health	0.8	0.2	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.4	0.5	0	1
Stress	0.6	0.5	0	1
Sleep	0.7	0.3	0	1
Appetite	0.8	0.2	0	1
Mood	0.9	0.1	0	1
Energy	0.7	0.3	0	1
Concentration	0.8	0.2	0	1
Memory	0.9	0.1	0	1
Emotion	0.7	0.3	0	1
Behavior	0.8	0.2	0	1
Thought	0.9	0.1	0	1
Feeling	0.8	0.2	0	1
Perception	0.9	0.1	0	1
Attention	0.8	0.2	0	1
Intuition	0.7	0.3	0	1
Imagination	0.6	0.4	0	1
Reasoning	0.9	0.1	0	1
Logic	0.8	0.2	0	1
Analysis	0.9	0.1	0	1
Synthesis	0.7	0.3	0	1
Evaluation	0.8	0.2	0	1
Comparison	0.9	0.1	0	1
Classification	0.8	0.2	0	1
Organization	0.7	0.3	0	1
Planning	0.9	0.1	0	1
Problem Solving	0.8	0.2	0	1
Decision Making	0.9	0.1	0	1
Communication	0.7	0.3	0	1
Interpersonal Skills	0.8	0.2	0	1
Teamwork	0.9	0.1	0	1
Leadership	0.7	0.3	0	1
Management	0.8	0.2	0	1
Coordination	0.9	0.1	0	1
Organization	0.8	0.2	0	1
Planning	0.7	0.3	0	1
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Coordination	0.8	0.2	0	1
Organization	0.9	0.1	0	1
Planning	0.8	0.2	0	1
Problem Solving	0.7	0.3	0	1
Decision Making	0.9	0.1	0	1
Communication	0.8	0.2	0	1
Interpersonal Skills				

Asp Asp Phe Asp Leu Asp Val Val Lys Val Ser Lys Gln Asp Ser Lys

85

90

95

Ile Thr Pro Gln

100

05693600.062901